



### Constant Voltage Dimmable Driver

Model: LV100W24 DALI



Model	Output Current	Input Current	Input Power	Output Power Range	PF (230V Full Load)	Efficiency (230V Full Load)	Output Voltage
LV100W24 DALI	4200mA	≤0.55A	≤112W	0-100.8W	≥0.95	≥92%	24V









\* Test result @230V, 50Hz, Full Load.

### 1. Parameters

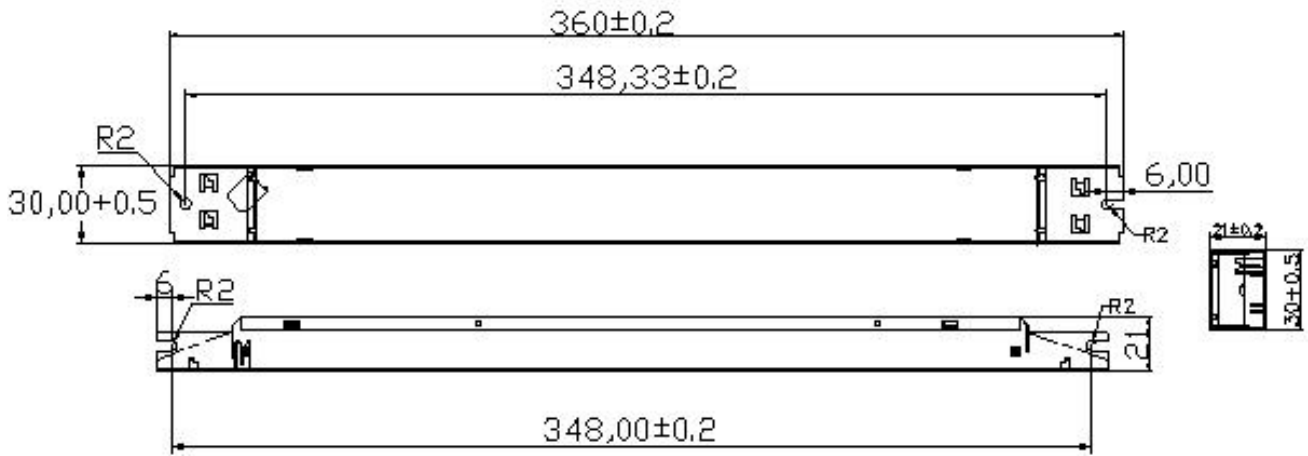
category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Dimming Type	DALI
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class I
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	176-264VAC
	Range of DC Input Voltage	176-280VDC
	Frequency	50/60Hz
	Input Current	≤0.55A
	Input Power	≤112W
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤20% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC (Dim to off)
	Inrush Current	57A/240us (230VAC, full load)
Connected quantity of 16A Breaker	5pcs/type B ; 8pcs/type C @ 230Vac	
Output	Output Voltage	24VDC +/-5%
	No Load Voltage	26VDC Max.
	Output Current	0-4200mA
	Max. Output Power	100.8W
	Efficiency	≥92% (@230VAC, full load)
	Voltage Ripple	2% (Vmax-Vmin) / (Vmax+Vmin)
	Current Accuracy	N/A
Start-up Time	≤0.5S (230VAC, full load)	
Control Method	DALI function	DALI dimming (Max. lead wire length: 300m) logarithm or linear dimming curve selectable

	Dimming range	DALI dimming: 1%-100% (1KHz)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S, 1500V 5mA 60S between P-E
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250µA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-25...+50 °C
	Ts/Storage Temperature	-40...+85 °C
	Tc/Enclosure Temperature	85 °C
	Humidity	10%...90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in
	PRI Wire preparation	0.75-1.5 <sup>□</sup>
	SEC Wire preparation	0.75-1.5 <sup>□</sup>
	Dimension	360*30*21mm (L*W*H)
Standards	Certification	ENEC/CE/SAA
	Safety Standards	EN61347-1:2015, EN61347-2-13:2014/A1:2017, EN62493:2015, AS61347.2.13:2018, AS/NZS 61347.1:2016 Inc A1
	EMC Standards	EN55015:2013/A1:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN61547:2009
	Performance	EN62384
	Surge	L-N/1KV (L/N)-PE/2KV
Others	RoHS	2011/65/EU
	Life Time	50000h @Ta / Tc
	Warranty	5years , F.R. < 10000ppm
<p>Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25 °C ambient temperature.  2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.</p>		

### 2. Label

<input type="checkbox"/> L <input type="checkbox"/> + <input type="checkbox"/> N	 <b>KGP</b> KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	<b>LED Dimmable Driver</b> <b>LV100W24 DALI</b> wire preparation <small>18mm/0.761,8"</small>	Input Voltage:220-240Vac Input Frequency:50/60Hz Power Factor(A):≥0.95 Prange=0-100.8W I <sub>n</sub> :≤0.55A	U <sub>rated</sub> =24Vdc I <sub>range</sub> =0~4200mA T <sub>c</sub> :85°C T <sub>a</sub> :-25to+50°C For LED modules Only	      	SEC <input type="checkbox"/> + <input type="checkbox"/> DA <input type="checkbox"/> DA <input type="checkbox"/>
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### 3. Dimension (Unit: mm)



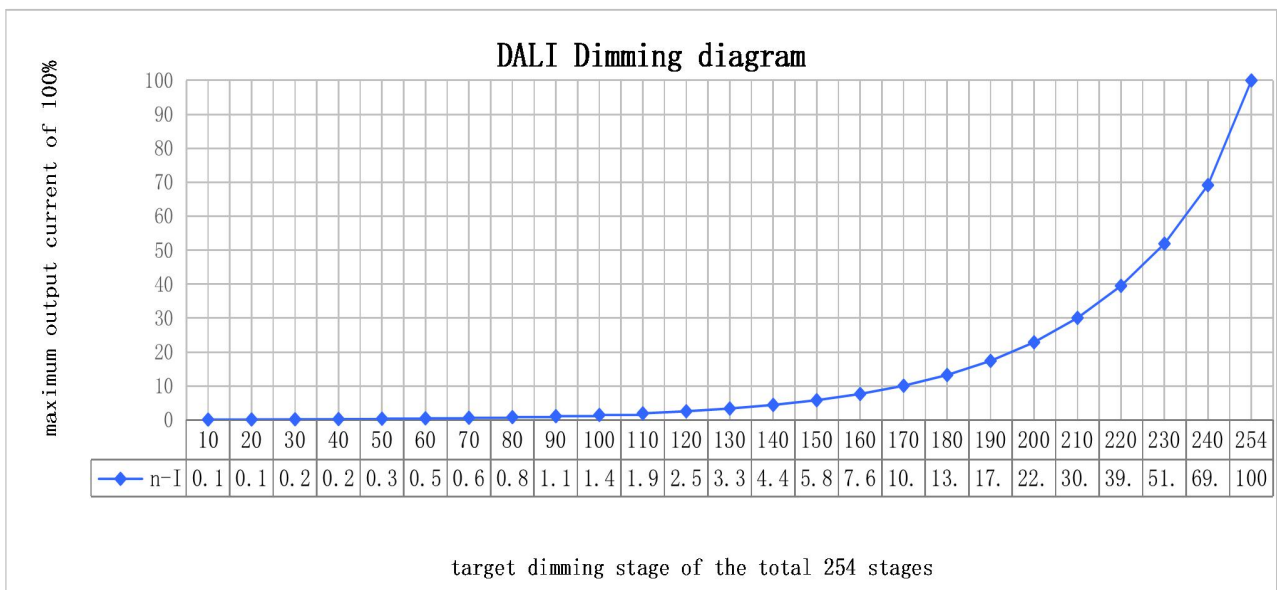
### 4. DALI dimming curve

#### 4.1 formula for DALI dimming.

$$X(n) = 10^{\left\{ \left[ \frac{(n-1)}{(253/3)} \right] - 1 \right\}}$$

Here, n means the target dimming stage of the total 254 stages.

X(n) means the percent of the maximum output current



### 5. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
410*270*190	35	0.31	10.85	11.41

### 6. Wiring Diagram

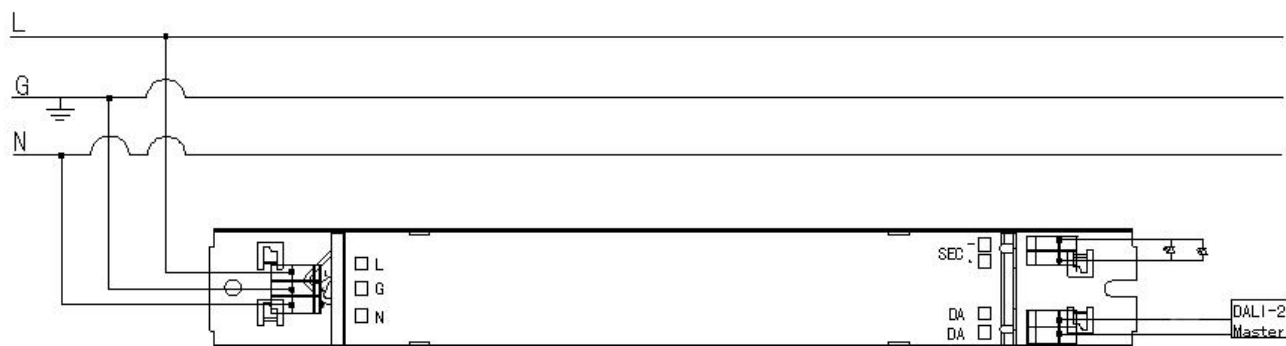


Fig. A : LV100W24 DALI